Online-Only Abstract

Mobile genetic elements of *Pseudomonas aeruginosa* isolates from hydrotherapy facility and respiratory infections

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Abstract

The content of mobile genetic elements in *Pseudomonas aeruginosa* isolates of a pristine natural mineral water system associated with healthcare was compared with clinical isolates from respiratory infections. One isolate, from the therapy pool circuit, presented a class 1 integron, with 100% similarity to a class 1 integron contained in plasmid p4800 of the *Klebsiella pneumoniae* Kp4800 strain, which is the first time it has been reported in *P. aeruginosa*. Class 1 integrons were found in 25.6% of the clinical isolates. PAGI1 *orf3* was more prevalent in environmental isolates, while PAGI2 *c105* and PAGI3 *sg100* were more prevalent in clinical isolates. Plasmids were not observed in either population.